

CLAIMS

1. A contactless communication system information carrier, comprising:

5 a core piece in which an integrated circuit chip with an antenna coil integrally formed on one surface is fitted inside a recess of a core piece body;

a non-metal spacer in which the core piece is fitted to a fitting part located in a center of the
10 spacer to retain the core piece; and

a metal weight which is placed and coupled so as to surround an outer periphery of the spacer,

wherein the antenna coil and the metal weight are separated from each other via the spacer.

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2. The contactless communication system information carrier according to Claim 1, wherein the fitting part of the spacer comprises a bottomed recess or a through hole, and the core piece body is forcibly
20 fitted into the fitting part.

3. The contactless communication system information carrier according to Claim 2, wherein an outer peripheral surface of the core piece body has an
25 annular convex portion or an annular groove, an inner

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Act 19

peripheral surface of the fitting part of the spacer has an annular groove or an annular convex portion, and the annular convex portion and the annular groove are fitted to each other.

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4. The contactless communication system information carrier according to Claim 1, wherein the fitting part of the spacer comprises a bottomed recess, and an inner peripheral surface of the fitting part or
10 an outer peripheral surface of the core piece body has an air vent groove.

5. The contactless communication system information carrier according to Claim 1, wherein the
15 weight has a through hole in a center part thereof, and a spacer made of a synthetic resin is forcibly fitted into the through hole.

6. The contactless communication system
20 information carrier according to Claim 5, wherein an inner peripheral surface of the through hole has a locking rib, which cuts into an outer peripheral surface of the spacer when the spacer is forcibly fitted into the through hole.

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Act, 19

7. The contactless communication system information carrier according to Claim 1, wherein the weight has a through hole in a center part thereof, and a spacer made of a synthetic resin is insert-molded into
5 the through hole.

8. The contactless communication system information carrier according to Claim 7, wherein an inner peripheral surface of the through hole has a
10 locking rib, which cuts into an outer peripheral surface of the spacer when the spacer is forcibly fitted into the through hole.

9. A contactless communication system information
15 carrier, comprising:

an integrated circuit chip in which an antenna coil for contactless communication is formed on one surface;

a non-metal resin member which packages the
20 integrated circuit chip; and

a weight which is at least partly or wholly made of a metal, and is placed and coupled so as to surround the resin member.

25 10. The contactless communication system

Rephrased by
Act. 19

information carrier according to Claim 9, wherein the weight is made of a composition of a metal and a synthetic resin.

5 11. The contactless communication system information carrier according to Claim 9, wherein the contactless communication system information carrier is coin-shaped, and the integrated circuit chip is mounted in a central part of the contactless communication
10 system information carrier.

12. A contactless communication system information carrier, comprising:

a core piece in which an integrated circuit chip
15 with an antenna coil integrally formed on one surface is fitted inside a recess of a core piece body;

a spacer which is made of a synthetic resin not including a metal, in which the core piece is fitted to a fitting part located in a center the spacer to retain
20 the core piece; and

a weight which is made of a composition of a metal and a synthetic resin, and is placed to surround an outer periphery of the spacer,

wherein the spacer and the weight are formed by
25 coinjection molding, and the antenna coil and the metal

Replaced by
Art. 19

weight are separated from each other via the spacer.

13. The contactless communication system
information carrier according to Claim 12, wherein the
5 fitting part of the spacer comprises a bottomed recess
or a through hole, and the core piece body is forcibly
fitted into the fitting part.

14. The contactless communication system
10 information carrier according to Claim 13, wherein an
outer peripheral surface of the core piece body has an
annular convex portion or an annular groove, an inner
peripheral surface of the fitting part of the spacer has
an annular groove or an annular convex portion, and the
15 annular convex portion and the annular groove are fitted
to each other.

15. The contactless communication system
information carrier according to Claim 12, wherein the
20 fitting part of the spacer comprises a bottomed recess,
and an inner peripheral surface of the fitting part or
an outer peripheral surface of the core piece body has
an air vent groove.

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Aet. 19